



3532 Maggie Blvd.
Orlando, FL 32811
p. 407.423.0504

RFP No. 22-903

AS NEEDED GEOLOGIC AND HYDROGEOLOGIC SERVICES

Submit Request To:

Lake County, Florida
Office of Procurement Services
ATTN: Ronald A. Falanga, CPPO, CPPB
Procurement Director
315 W. Main Street, Suite 441
Tavares, FL 32778

Submittal Due Date: Submittal Due Time:
October 12, 2021 3:00 PM

universalengineering.com

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SECTION 1

Vendor Profile

Date: Tuesday, October 12, 2021

Universal Engineering Sciences

Attention: Lake County, Florida, Office of Procurement Services
Ronald A. Falanga, CPPO, CPPB Procurement Director
315 W. Main Street, Suite 441
Tavares, FL 32778

3532 Maggie Blvd.
Orlando, FL 32811
407.423.0504

Reference: RFQ No 22-903,
As Needed Geologic and Hydrogeologic Services

Dear Committee Members:

Universal Engineering Sciences (UES) is pleased to present to Lake County, Florida Office of Procurement Services our response to RFQ No. 22-903 As Needed Geologic and Hydrogeologic Services. The professional project team, located in Orlando and throughout the State of Florida, can provide Lake County with a quality of service unmatched within the environmental services industry. Not only will this proposal clearly illustrate our team's vast resources, excellent responsiveness, and dedication to excellence, but we will also describe our successes with identical scopes and outline our comprehensive and cost-effective approach to the needs of Lake County.

Celebrating 57 years of environmental, geotechnical, and materials testing excellence, UES has established itself as a pioneer both culturally and technologically and has grown into one of the industry's most respected and successful privately owned companies. With over 2,500 professionals employed throughout our 60 fully-operational branches, UES has provided a broad range of services such as environmental engineering, construction materials testing and threshold inspection, building code compliance, and facilities consulting to some of the most prominent and significant projects in the United States.

UES' professional engineers, board certified industrial hygienists and safety professionals, accredited geologists, and field technicians are registered throughout the southeastern United States, and most hold advanced degrees in their specialized fields, as well as professional accreditations.

Our world-class environmental services team works in both public and private sectors throughout the U.S., including educational facilities, municipalities, theme parks, hospitality, transportation, residential, higher education, healthcare, and retail. UES' specialists will be supported by a comprehensive set of resources, including one of the largest fleets of energy-efficient propane-powered vehicles, modern high-capacity drill rigs, and state-of-the-art laboratories that UES partners with throughout the State of Florida.

UES' reputation, facilities, and culture attract some of the most experienced and knowledgeable professionals in the industry. Many of our staff have been with the company for 10 years or more. An unmistakable passion for excellence is ever-present, as is a camaraderie and eagerness to teach, learn, and contribute to our clients' success.

Respectfully Submitted,
Universal Engineering Sciences



Melisse T. James, PE
Environmental Department Manager
mtjames@universalengineering.com

GROUNDING IN EXCELLENCE

For nearly six decades, Universal Engineering Sciences (UES) has provided essential engineering services throughout the United States, including Environmental and Geotechnical services.

Experienced and proven, UES is considered a pioneer of the industry and stands at the forefront of emerging technology, best practices, and influential legislature.

Our work includes both public and private clients and consists of projects ranging from transportation and healthcare to commercial and education. Our engineers, geologists, certified inspectors, and scientists offer an unwavering commitment to excellence, approaching each project as an opportunity to cultivate enduring relationships with our clients.

Built on experience and driven by a determination to see our clients through to success, UES remains focused, optimistic, and grounded in excellence.

UNDERSTANDING OUR GROWTH

In early 2020 the geotechnical landscape was forever changed by the unprecedented union of a few like-minded, leading engineering firms. Complementary in professional services, core values, and customer service-centric views, Universal Engineering Sciences, Inc., GFA International, Inc., Contour Engineering, and NOVA Geotechnical & Inspection Services merged to form the Universal Engineering Sciences family of companies (UES)— the largest, most experienced, resource-rich organization of its kind in the U.S.

The success of this union was based on many key factors, one of which was geographic location. While Universal Engineering Sciences and GFA International maintained a substantial market share throughout Florida, an established, well-respected firm in Georgia was needed to secure UES' presence as an industry leader in the southeast—Contour Engineering was such a company.

CORPORATE HEADQUARTERS

Universal Engineering Sciences, LLC.
4205 Vineland Rd., Suite L1
Orlando, FL 32811

OFFICE IN CHARGE

3532 Maggie Boulevard
Orlando, FL 32811

ESTABLISHED

Corporation, 1964, Florida

AUTHORIZED IN FLORIDA

1964

OFFICERS

CEO: Mark Israel
President: Jim Walsh
Vice President: R. Kenneth Derick
Secretary: Melvin Rodriguez
VP of Finance: Melvin Rodriguez

FEIN

59-1117804

DUNS

06-481-7562



The Universal Engineering Sciences Family of Companies



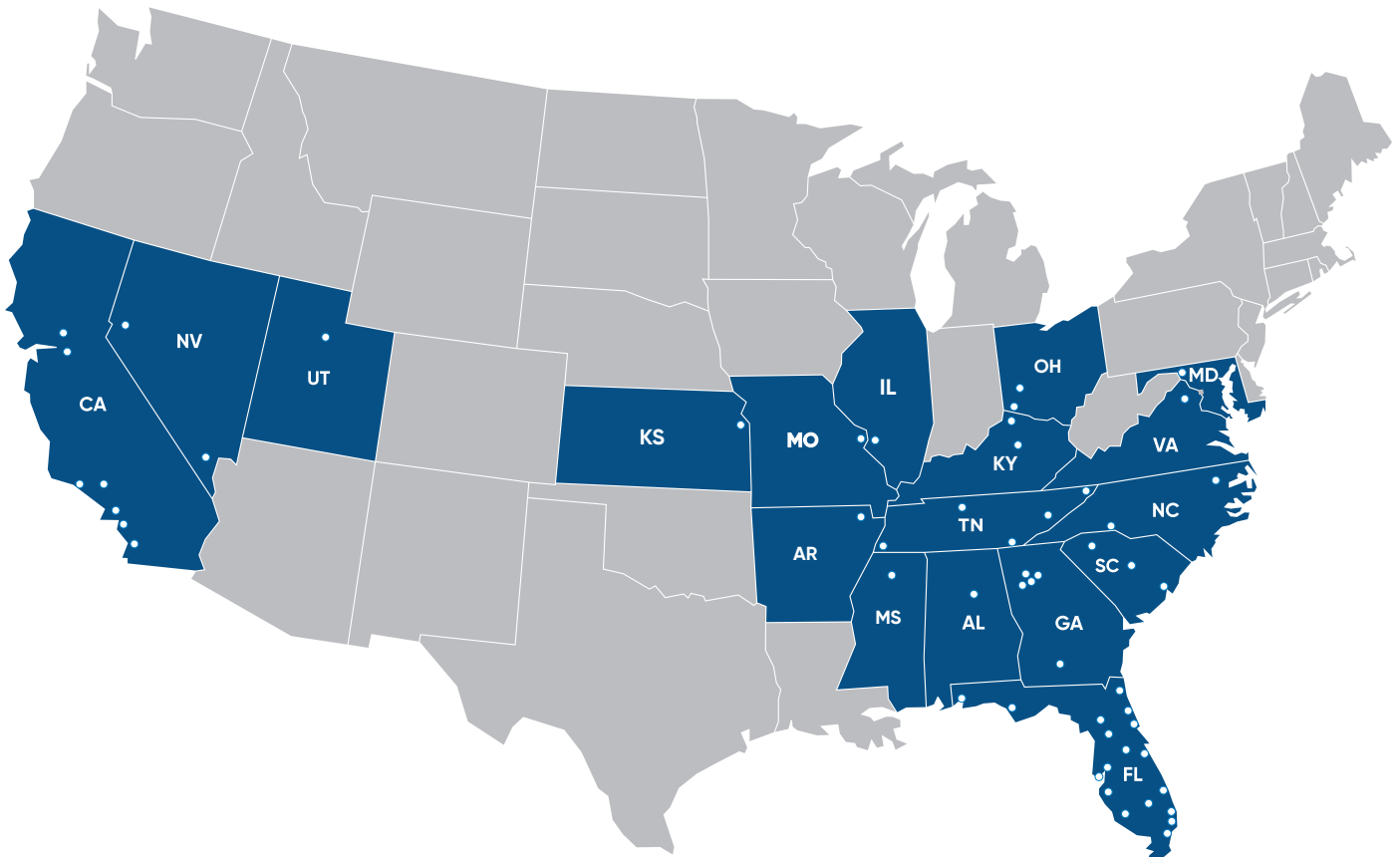
Founded in 2000 and led by James Rebeiz and David Hesterlee, Contour has provided geotechnical engineering, environmental/natural resource consulting, and construction materials testing services throughout Georgia and Alabama and has developed a reputation for fast and accurate testing and superior client service.

After merging with the UES family, it was decided that due to its brand-identity, Contour would maintain its name for the foreseeable future while inheriting all of the resources, technology, and strengths that accompanied the merger.

With the Southeast well-in-hand, a similar acquisition was necessary out west in order to accommodate UES' vision for growth. Headquartered in Las Vegas, Nevada since 2001, NOVA Geotechnical & Inspection Services led by James Bristow (now UES President of Western Division), was ideally suited to pioneer the company's westward expansion and to serve as the base of operations for our Western Division.

Most recently, the company acquired Wallace-Kuhl + Associates, CTE, Inc., SUMMIT Engineering, Laboratory & Testing, Inc., and GEOServices, LLC to complement our services and further expand our geographic footprint coast to coast.

60 OFFICE LOCATIONS, COAST TO COAST



ATTACHMENT 3 – REFERENCES FORM**22-903**

List no more than five projects which best illustrates qualifications relevant to the Solicitation. References must be less than five years old. LIST no more than two LAKE COUNTY GOVERNMENT PROJECTS (past, current, prime, and subcontractor) FIRST.

Universal Engineering Sciences, LLC

PROJECT NAME: Umatilla Landfill Semi-Annual Report

Agency: Lake County Public Works, Solid Waste Division

Address: 13130 County Landfill Road

City, State, Zip code: Tavares, Florida 32788

Contact Person: Ms. Jennifer D. Fisher

Title: Compliance Specialist

Email: jdfisher@lakecountyfl.com

Telephone: 352-253-1679

Project Cost: \$1,595.00

Contract Start and End Dates: June 11, 2021 – Ongoing

SCOPE of Project (list tasks, outlines or descriptions of items): UES prepared the first semi-annual monitoring report for 2021 in accordance with FDEP rules. UES tabulated the field parameter data and laboratory analytical data provided by Lake County Public Works. UES calculated groundwater elevations based on given water level data in order to determine the direction of groundwater flow in the upper and lower surficial aquifer. The electronic data deliverable (EDD) files were imported to the FDEP Automated Data Processing Tool (ADaPT) application for evaluation. A final report of the findings was submitted to FDEP through the FDEP Business Portal.

PROJECT NAME: Lake County Central Landfill Semi-Annual Report

Agency: Lake County Public Works, Solid Waste Division

Address: 13130 County Landfill Road

City, State, Zip code: Tavares, Florida 32788

Contact Person: Ms. Jennifer D. Fisher

Title: Compliance Specialist

Email: jdfisher@lakecountyfl.com

Telephone: 352-253-1679

Project Cost: \$3,075.00

Contract Start and End Dates: April 25, 2019 – August 27, 2019

SCOPE of Project (list tasks, outlines or descriptions of items): UES prepared the first semi-annual monitoring report for 2019 in accordance with FDEP rules. UES tabulated the field parameter data and laboratory analytical data provided by Lake County Public Works. UES calculated groundwater elevations based on given water level data in order to determine the direction of groundwater flow in the upper and lower surficial aquifer. The electronic data deliverable (EDD) files were imported to the FDEP Automated Data Processing Tool (ADaPT) application for evaluation. A final report of the findings was submitted to FDEP through the FDEP Business Portal.

ATTACHMENT 3 – REFERENCES FORM**22-903**

PROJECT NAME: Harbour Pointe, Sanford, Florida

Agency: Central FL Capital Group, LLC

Address: 1511 E. Robinson Street

City, State, Zip code: Orlando, Florida 32804

Contact Person: Mr. Bobby Luthra

Title: President

Email: bobluthra@msn.com

Telephone: 407-649-9888

Project Cost: \$67,165.00

Contract Start and End Dates: April 4, 2019 - October 30, 2020

SCOPE of Project (list tasks, outlines or descriptions of items): UES completed a soil and groundwater assessment to determine the extent of arsenic-impacted soil and groundwater at a former agricultural site in accordance with FDEP rules. UES installed numerous monitoring wells in the surficial aquifer and performed one year of groundwater monitoring to demonstrate arsenic plume stability. The monitoring wells were constructed in accordance with FDEP Standard Operating Procedure (SOP) PCS-006. UES collected quarterly groundwater samples from the monitoring wells in accordance with FDEP SOP FS 2200. Due to ongoing construction during the monitoring period, UES was contracted to replace damaged monitoring wells as needed. All monitoring wells were surveyed in order to calculate groundwater elevations for determination of groundwater flow direction.

PROJECT NAME: Sherwood Medical National Priorities List Site, Deland, FL

Agency: Pfizer, Inc.

Address: 100 Route 206N, M/S 6/610

City, State, Zip code: Peapack, NJ 07977

Contact Person: Mr. Russell Downey

Title: Director-Environmental Engineering, Remediation & Transactions Global Engineering

Email: russell.g.downey@pfizer.com

Telephone: 908-413-0811

Project Cost: \$125,393.00

Contract Start and End Dates: Annual

SCOPE of Project (list tasks, outlines or descriptions of items): This project involves complete operations and site activities at a manufacturing facility placed on the National Priorities List (NPL) in 1982. Production wastes had historically been routed to septic drain fields and on-site lagoons. UES maintains and operates a groundwater extraction and treatment system which treats approximately 75 million gallons of groundwater per year. Universal performs semi-annual sampling and reporting of 46 monitoring and groundwater extraction wells, 5 private residential wells and two adjacent lakes. Reporting to the USEPA and the FDEP includes the preparation of potentiometric maps for two aquifers, preparation of contaminant iso-contour maps for site related contaminants, calculation of recovered contaminant mass and contaminant trend analysis.

ATTACHMENT 3 – REFERENCES FORM**22-903**

PROJECT NAME: Discovery Marketing & Distribution, Orlando, Florida

Agency: Discovery Real Estate Holdings, Inc.

Address: 6505 Edgewater Drive

City, State, Zip code: Orlando, Florida 32810

Contact Person: Mr. Tim Randolph

Title: Owner

Email: trandolph@dmadinc.com

Telephone: 407-947-1330

Project Cost: \$139,124.75

Contract Start and End Dates: Ongoing

SCOPE of Project (list tasks, outlines or descriptions of items): UES completed a groundwater assessment for a chlorinated solvent release from a former industrial facility. UES assessed the groundwater quality through a combined method of monitoring well installation and sampling, and discrete sampling using a direct-push technology-type drill rig. The monitoring wells were constructed in accordance with FDEP Standard Operating Procedure (SOP) PCS-006. The assessment revealed the presence of chlorinated solvents in excess of FDEP Groundwater Cleanup Target Levels and Natural Attenuation Default Concentrations in the surficial aquifer. UES anticipates conducting remedial action to reduce the chlorinated solvent concentrations and implementing long-term groundwater monitoring.



Education

BS, Biological Sciences, Florida State University

BS, Environmental Engineering, University of Central Florida

Years of Experience

18

Business Address

3532 Maggie Blvd.
Orlando, FL 32811

Contact Info

p 407.423.0504
mtjames@
universalengineering.com

Licenses

- Professional Engineer, FL #90996

Certifications

- OSHA, Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification

Melisse T. James, PE

Program Manager / Environmental Department Manager

Melisse James has 18 years of project management experience in the environmental consulting industry. She has performed numerous Phase I and Phase II Environmental Site Assessments (ESAs) for industrial and commercial use properties. She routinely provides environmental investigative, remediation, and monitoring services for sites where petroleum products and hazardous substances are present.

PROJECT EXPERIENCE

Phase I ESAs, Industrial, Commercial and Agricultural Sites

Various Counties, Florida

Ms. James has been responsible for environmental assessments on various commercial and industrial sites for real estate transactions in which the properties are evaluated for potential exposure from hazardous materials and petroleum products. The assessments are completed in accordance within the guidelines set forth in ASTM E1527-13. Included within these assessments are a review of current and historical ownership and land use activities, examination of available historical records such as aerial photography, city directories, and fire insurance maps, evaluation of pertinent regulatory records, and preparation of final reports that detail the findings and recommendations regarding further action that may be warranted.

Soil Delineation and Source Removal, Former Plant Nursery

Apopka, Orange County, Florida

Ms. James provided project management for the delineation and removal of approximately 420 cubic yards of pesticide-impacted soils at a former plant nursery. Ms. James prepared and issued a final report to the FDEP. Upon completion of the source removal, site closure was approved by the FDEP due to demonstration of proper cleanup.

Environmental Services for National Bank Client

Various Counties, Florida, Georgia and Alabama

Ms. James has been the national account manager for a national bank client for over one year. Ms. James has provided project management for various environmental services including Phase I and II ESAs, limited soil, vapor and groundwater assessments, asbestos surveys, and lead-based paint evaluations for properties in Florida, Georgia, and Alabama. She routinely provides consulting services to the client's environmental risk department in order to evaluate environmental risks associated with pending real estate transactions.

Groundwater Assessment and Remediation, Commercial Site

Orlando, Florida

Ms. James was the project manager for this groundwater assessment and remediation project. A petroleum product discharge was present on the property, which was delineated and subsequently remediated through the application of bioremediation products and air sparging of the impacted groundwater. Following quarterly groundwater monitoring activities to demonstrate proper cleanup of the discharge, the facility received site closure status by the Florida Department of Environmental Protection (FDEP).

Environmental Services, Former Drum Recycling and Paint Manufacturing Facility

Winter Springs, Seminole County, Florida

Ms. James provided project management for environmental services including a Phase I ESA, Phase II ESA, and Soil and Groundwater Assessment for a property that was historically developed with a drum recycling facility and paint manufacturing plant. The facility was designated as a Brownfield Site prior to UES' effort due to the presence of documented chlorinated solvent and petroleum contamination. However, the potential presence of undocumented contamination at areas where structures were formerly present that had not been assessed for a wide variety of contaminants was identified in the Phase I ESA. Subsequent soil and groundwater testing was performed at the locations of concern. Approximately 4.5 acres of soil impacted with organochlorine pesticides, metals, petroleum products and polychlorinated biphenyls were delineated at the site. The FDEP later approved the contamination assessment. Site closure is anticipated through the implementation of engineering and institutional controls to minimize possible exposure.

Soil and Groundwater Assessment, Industrial Site

Orlando, Orange County, Florida

Ms. James is providing project management for the ongoing assessment of a chlorinated solvent plume at an existing industrial facility. The assessment was initiated due to the detection of chlorinated solvents in a breached Floridan aquifer supply well by the Florida Department of Health. Due to the discovery of the chlorinated solvents along the property boundaries, Site Access Agreements were prepared and authorized by neighboring property owners to allow an evaluation of off-site impacts. At this time, off-site assessments are occurring to determine the extent of the groundwater contamination. The depth of contamination extends from the top of the water table to a depth of approximately 75 feet below land surface. Ms. James is providing reporting and coordination with the Florida Department of Environmental Protection and property owner during the assessment phase. At the time the assessment is complete, UES anticipates the completion of remedial action and long-term monitoring of the groundwater contamination.

Environmental Services, Proposed Mixed-Use Development

Orlando, Orange County, Florida

Ms. James provided project management for environmental services including a Phase I ESA, Phase II ESA, Soil Vapor Assessment, and Groundwater Assessment for multiple parcels of commercially and industrially developed land planned for redevelopment into a mixed-use commercial and residential development. Ms. James provided consulting services regarding the presence of on-site contamination related to past petroleum product discharges, railroad bed contamination, former registered and unregistered storage tanks, and off-site chlorinated solvent contamination. She provided project management for an assessment of possible soil vapor encroachment due to the subsurface contamination. In addition, she provided project management for groundwater testing needed for possible dewatering treatment during the construction phase.

State of Florida Department of State

I certify from the records of this office that UNIVERSAL ENGINEERING SCIENCES, LLC is a limited liability company organized under the laws of the State of Florida, filed on January 6, 2020, effective April 29, 1966.

The document number of this limited liability company is L20000003595.

I further certify that said limited liability company has paid all fees due this office through December 31, 2021, that its most recent annual report was filed on January 8, 2021, and that its status is active.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Eighth day of January, 2021*



Ronald R. DeSantis
Secretary of State

Tracking Number: 1723081301CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Licensee Details

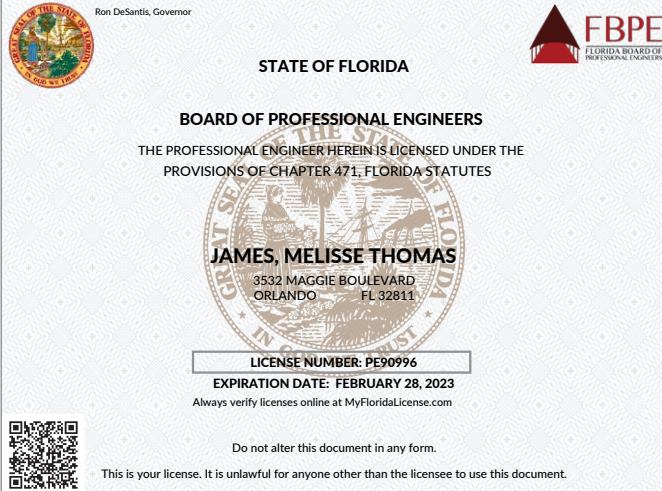
Licensee Information

Name: **UNIVERSAL ENGINEERING SCIENCES, LLC (Primary Name)**
 Main Address: **3532 MAGGIE BOULEVARD
 ORLANDO Florida 328116697**
 County: **ORANGE**
 License Mailing:
 LicenseLocation:

License Information

License Type: **Registry**
 Rank: **Registry**
 License Number: **549**
 Status: **Current**
 Licensure Date: **04/27/1983**
 Expires:

Special Qualifications **Qualification Effective**



Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

JAMES, MELISSE THOMAS
 3532 MAGGIE BOULEVARD
 ORLANDO FL 32811

LICENSE NUMBER: PE90996
EXPIRATION DATE: FEBRUARY 28, 2023
 Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor Halsey Beshears, Secretary

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

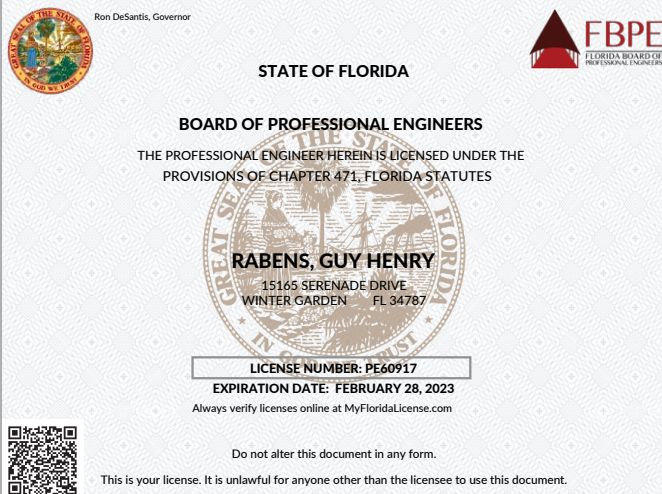
BOARD OF PROFESSIONAL GEOLOGISTS

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

GEDEN, MICHAEL J
 8636 CATBRIAR LN
 ORLANDO FL 32829

LICENSE NUMBER: PG408
EXPIRATION DATE: JULY 31, 2022
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Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

RABENS, GUY HENRY
 15165 SERENADE DRIVE
 WINTER GARDEN FL 34787

LICENSE NUMBER: PE60917
EXPIRATION DATE: FEBRUARY 28, 2023
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SECTION 2

Forms

ATTACHMENT 1 – SUBMITTAL FORM**22-903**

The undersigned hereby declares that: Universal Engineering Sciences has examined and accepts the specifications, terms, and conditions presented in this Solicitation, satisfies all legal requirements to do business with the County, and to furnish **As Needed Geologic and Hydrogeologic Services** for which Submittals were advertised to be received no later than 3:00 P.M. Eastern time on the date stated in the solicitation or as noted in an addenda. Furthermore, the undersigned is duly authorized to execute this document and any contracts or other transactions required by award of this Solicitation.

1.0 TERM OF CONTRACT

The Contract will be awarded for an initial one (1) year term with the option for two (2) subsequent two (2) year renewals. Renewals are contingent upon mutual written agreement.

The Contract will commence upon the first day of the next calendar month after Board approval. The Contract remains in effect until completion of the expressed and implied warranty periods. The County reserves the right to negotiate for additional services/items similar in nature not known at time of solicitation.

2.0 METHOD OF PAYMENT

The Contractor must submit an accurate invoice to the County's using department's email. The date of the invoice must be after delivery but no more than 30 calendar days after delivery. Invoices must reference the: purchase or task order; delivery date, delivery location, and corresponding packing slip or delivery ticket signed by a County representative at the time of acceptance. Failure to submit invoices in the prescribed manner will delay payment.

Payments will be tendered in accordance with the Florida Prompt Payment Act, Part VII, Chapter 218, Florida Statutes. The County will remit full payment on all undisputed invoices within 45 days from receipt by the appropriate County using department. The County will pay interest not to exceed 1% per month on all undisputed invoices not paid within 30 days after the due date.

All pricing will be FOB Destination unless otherwise specified in this solicitation document. Pricing submitted will remain valid for a ninety (90) day period.

Vendor accepts MasterCard for payment: YES

3.0 CERTIFICATION REGARDING LAKE COUNTY TERMS AND CONDITIONS:

I certify that I have reviewed the [General Terms and Conditions for Lake County Florida](#) and accept the Lake County General Terms and Conditions dated 5/6/21 as written including the Proprietary/Confidential Information section. YES Failure to acknowledge may result in Submittal being deemed non-responsive.

4.0 CERTIFICATION REGARDING FELONY CONVICTION:

Has any officer, director, or an executive performing equivalent duties, of the bidding entity been convicted of a felony during the past ten (10) years? NO

5.0 CONFLICT OF INTEREST DISCLOSURE CERTIFICATION:

Except as listed below, no employee, officer, or agent of the firm has any conflicts of interest, real or apparent, due to ownership, other clients, contracts, or interests associated with this project; and, this Submittal is made without prior understanding, agreement, or connection with any

ATTACHMENT 1 – SUBMITTAL FORM**22-903**

corporation, firm, or person submitting a proposal for the same services, and is in all respects fair and without collusion or fraud. N/A

6.0 CERTIFICATION REGARDING BACKGROUND CHECKS:

Under any County Contract that involves Contractor or subcontractor personnel working in proximity to minors, the Vendor hereby confirms that any personnel so employed will have successfully completed an initial, and subsequent annual, Certified Background Check, completed by the Contractor at no additional cost to the County. The County retains the right to request and review any associated records with or without cause, and to require replacement of any Contractor employee found in violation of this requirement. Contractor shall indemnify the County in full for any adverse act of any such personnel in this regard. Additional requirements may apply in this regard as included within any specific contract award. YES

7.0 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

The County does not establish specific goals for minority set-asides however, participation by minority and non-minority qualified firms is strongly encouraged. If the firm is a minority firm or has obtained certification by the State of Florida, Office of Supplier Diversity, (OSD) (CMBE), please indicate the appropriate classification(s) not applicable not applicable and enter OSD Certification Number N/A and enter effective date N/A to date N/A

8.0 RECIPROCAL VENDOR PREFERENCE:

Vendors are advised the County has established, under Lake County Code, Chapter 2, Article VII, Sections 2-221 and 2-222; a process under which a local vendor preference program applied by another county may be applied in a reciprocal manner within Lake County. The following information is needed to support application of the Code:

- A. Primary business location of the responding Vendor: Orlando, Florida
- B. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted: NO If “yes” is checked, provide supporting detail: N/A

9.0 GENERAL VENDOR INFORMATION:

Firm Name: Universal Engineering Sciences, LLC

Street Address: 3532 Maggie Blvd.

City: Orlando State and ZIP Code: Florida 32811

Mailing Address (if different): N/A

Telephone: 407-423-0504 Fax: N/A

Federal Identification Number / TIN: 59-1117804

DUNS Number: 06-481-7562

10.0 SUBMITTAL SIGNATURE:

I hereby certify the information indicated for this Submittal is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an authorized representative of this Vendor and/or empowered to execute this Submittal on behalf of the Vendor.

ATTACHMENT 1 – SUBMITTAL FORM

22-903

I, individually and on behalf of the Vendor, acknowledge and agree to abide by all terms and conditions contained in this solicitation as well as any attachments, exhibits, or addenda.

Name of Legal Representative Submitting this Proposal: *Melisse T. James, PE*

Date: 10/6/2021

Print Name: Melisse T. James, PE

Title: Environmental Department Manager

Primary E-mail Address: mtjames@universalengineering.com

Secondary E-mail Address: N/A

The individual signing this Submittal affirms that the facts stated herein are true and that the response to this Solicitation has been submitted on behalf of the aforementioned Vendor.

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[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company
UNIVERSAL ENGINEERING SCIENCES, LLC

Filing Information

Document Number	L20000003595
FEI/EIN Number	59-1117804
Date Filed	01/06/2020
Effective Date	04/29/1966
State	FL
Status	ACTIVE
Last Event	LC AMENDMENT
Event Date Filed	02/21/2020
Event Effective Date	NONE

Principal Address

3532 MAGGIE BLVD
ORLANDO, FL 32811

Mailing Address

3532 MAGGIE BLVD
ORLANDO, FL 32811

Registered Agent Name & Address

CORPORATION SERVICE COMPANY
1201 HAYS ST
TALLAHASSEE, FL 32301

Name Changed: 01/27/2020

Address Changed: 01/27/2020

Authorized Person(s) Detail

Name & Address

Title AMBR

OBSIDIAN GROUP ACQUISITIONS, INC.
525 S FLAGLER DR
C/O PALM BEACH CAPITAL
STE 201
WEST PALM BEACH, FL 33401

Title CEO

ISRAEL, MARK
3532 MAGGIE BLVD
ORLANDO, FL 32811

Annual Reports

Report Year	Filed Date
2021	01/08/2021

Document Images

01/08/2021 -- ANNUAL REPORT	View image in PDF format
02/21/2020 -- LC Amendment	View image in PDF format
02/14/2020 -- LC Amendment	View image in PDF format
01/27/2020 -- CORLCRACHG	View image in PDF format
01/06/2020 -- Florida Limited Liability	View image in PDF format

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

**Request for Taxpayer
Identification Number and Certification**

Give Form to the
requester. Do not
send to the IRS.

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type.
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Universal Engineering Sciences, LLC

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

Individual/sole proprietor or single-member LLC

C Corporation

S Corporation

Partnership

Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► **S**

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

Other (see instructions) ►

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
3532 Maggie Blvd

6 City, state, and ZIP code
Orlando, FL 32811

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			-					
--	--	--	---	--	--	--	--	--

or

Employer identification number


5	9	-	1	1	1	7	8	0	4
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Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ► 

Date ► **1/4/2021**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

ADDENDUM NO. 1

22-903



Office of Procurement Services

P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICITATION: As-Needed Geologic and Hydrogeologic Services

10/05/2021

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THE DATE FOR RECEIPT OF PROPOSALS IS CHANGED TO OCTOBER 12, 2021

ADDITIONAL INFORMATION

Remove and replace Exhibit A – Scope of Work/Services with Exhibit A – Scope of Work/Services REVISED.

ACKNOWLEDGEMENT

Firm Name: Universal Engineering Sciences, LLC

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *Melisse T. James, PE*

Date: 10/6/2021

Print Name: Melisse T. James, PE

Title: Environmental Department Manager

Primary E-mail Address: mtjames@universalengineering.com

Secondary E-mail Address: N/A

AGENCY CUSTOMER ID: 00348504

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY Brown & Brown of Florida, Inc.		NAMED INSURED Universal Engineering Sciences, LLC	
POLICY NUMBER			
CARRIER	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance

Contractual Liability as respects to General Liability as per Commercial General Liability Coverage Form form #CG0001 04/13.
 *Additional Insured status is granted with respects to Automobile Liability policy on a primary basis with regard to the operations of the named insured if required by written contract per endorsement "Business Auto Coverage Form" form #CA0001 10/13.
 *Waiver of Subrogation status is granted with respects to General Liability if required by written contract per "Architects, Engineers and Surveyors General Liability Extension Endorsement" Form #CNA74858 01/15.
 *Waiver of Subrogation status is granted with respects to Workers Compensation if required by written contract per Waiver of Our Rights to Recover from Others Endorsement, form #WC000313.
 *Waiver of Subrogation status is granted with respects to Automobile Liability if required by written contract per "Business Auto Coverage Form" form #CA0001 10/13.
 With regard to General Liability, when required by written contract, 30 Days Notice of Cancellation applies per form "Changes-Notice of Cancellation or Material Restriction Endorsement" form #CNA74702 01/15.
 With regard to Automobile, when required by written contract, 30 Days Notice of Cancellation applies per form "Notice of Cancellation or Material Change-Designated Person or Organization" form #CNA72315 02/13.
 With regard to Workers Compensation, when required by written contract, 30 Days Notice of Cancellation applies per form "Notice of Cancellation or Material Change Endorsement" form #CNA87380 11/16.
 Excess policies follow form of the underlying policies.
 Aggregate limit where applicable

ADDITIONAL COVERAGES						
Ref #	Description Cyber Liability	Coverage Code	Form No.	Edition Date		
Limit 1 1,000,000	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description Uninsured motorist combined single limit	Coverage Code UMCSL	Form No.	Edition Date		
Limit 1 1,000,000	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description PIP-Basic	Coverage Code PIP	Form No.	Edition Date		
Limit 1 10,000	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description WC & Employer's liability	Coverage Code WCEL	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	
Ref #	Description	Coverage Code	Form No.	Edition Date		
Limit 1	Limit 2	Limit 3	Deductible Amount	Deductible Type	Premium	

OFADTLCV

Copyright 2001, AMS Services, Inc.

AGENCY CUSTOMER ID: 00348504 _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY Brown & Brown of Florida, Inc.		NAMED INSURED Universal Engineering Sciences, LLC	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance: Notes

Type of Insurance: Excess Liability; Carrier: Landmark American Insurance Co.; Policy number: LHA092746; Limit: \$2,000,000- Excess Over Auto Only



SECTION 3

Proposed Solution



PROPOSED SOLUTION

UES PROJECT APPROACH

The UES technical team provides environmental consulting services focused on county and municipal governments, builder groups, developers, and private clients. Our projects range from on-call, task work order-based assignments to total turnkey management and staffing. This diversity and customization provides the best service for our clients' needs and sets us apart from our competitors. We do not offer a broad-based or a one-size-fits-all solution because we know every client or agency is unique. We take a proactive approach with solutions developed for each client, which allows for the most accommodating and responsive service package available in our industry.

MANAGEMENT PLAN

UES has local resources available to execute the required tasks outlined under this contract. If local subcontractors are required for a specific project or task, it is our corporate policy that we work with only pre-approved subcontractors who have met our rigorous approval process requirements. Our dedicated project management team is involved in every aspect of the project, including project programming, conceptual design, scope

development, scheduling, fee development and budget management, evaluation of third-party bids, and response to requests for information. The UES project management approach builds on synergies that provide an innovative, customized project management system that supports continued improvement and efficient operations on every project. Our senior-level staff routinely coordinates and attends meetings with our clients and other vested parties to assure the project progresses per the planned scope of services, the necessary schedule, and the approved budget. UES understands the importance and value of continuous quality control because it is our business.

SCHEDULING

UES values the importance of delivering projects promptly, and we understand that our clients often need to make critical decisions under tight time frames while considering budget, end goals, follow-up actions, and public image. Our staff strives to develop and drive realistic project schedules for every assignment we receive. Our project management team starts every project we undertake by assembling the project team to discuss our approach.

One of the first steps for the project manager is to meet with all vested parties to conduct a project kick-off meeting. As part of the project kick-off meeting, a detailed schedule involves the UES project team, sub-consultants, and the client. One of the critical aspects of this meeting is to understand our client's objectives and desired outcomes (CODO) to present the proposed schedule to the client. The project schedule is designed with a complete understanding of the CODO for the client. We take a look at many project aspects, including field conditions, the scope of services, project logistics, site access, subcontractor availability, laboratory turnaround times, and regulatory deadlines, to name a few. Once we completely understand our resources, we develop a written schedule that is presented to the client for review. UES takes the approach to be flexible and to be a solution provider when scheduling challenges arise. Good communication with the client is critical for any successful project.



EIA PROCESS

We assess the impacts of federal, state, or local regulatory compliance on current or proposed activities by developing a plan before the decision to move forward with the proposed actions. The approach utilized by UES is the environmental impact assessment (EIA) process, where a strategy is applied to actual projects through the involvement of all invested parties. Environmental assessments may be governed by rules of administrative procedure regarding public participation and documentation of decision-making and may be subject to judicial review.

The purpose of the assessment is to ensure that decision-makers consider the environmental impacts when deciding whether or not to proceed with a project. We follow the International Association for Impact Assessment (IAIA) as a guide where an environmental impact assessment is defined as "the process of identifying, predicting, evaluating and mitigating the biophysical, social, and other relevant effects of development proposals before major decisions being taken and commitments made." EIAs are unique in that they do not require adherence to a predetermined environmental outcome. However, instead, they need decision-makers to account for environmental values in their decisions and to justify those decisions in light of detailed environmental studies and public comments on the potential environmental impacts. Our experience in this area can help Lake County achieve environmental compliance with every project they undertake.

DRILLING AND GROUNDWATER MONITORING SERVICES

UES' technical staff has completed countless contamination assessments and groundwater monitoring and remediation projects in many settings throughout the State of Florida. Our in-house environmental drilling team allows us to quickly mobilize to a site to install, repair and abandon monitoring wells following applicable rules. All required well permits are obtained by our licensed well drillers before commencing drilling activities. Our staff that includes licensed geologists and engineers provide oversight of any drilling activities. They analyze monitoring well data, calculate groundwater elevations, and prepare technical reports of the findings and recommendations. UES is well experienced in working with the FDEP and their platforms, including Automated Data Processing Tool (ADaPT) and the Business Portal. UES knows the regulatory rules that apply to this contract, including Chapter 62-701, 62-777, and 62-780 of the Florida Administrative Code. UES has developed a solid reputation in the regulatory community for successful projects, and we are recognized as a trusted partner by our clients.



SECTION 4

Subcontractors/ Joint Ventures



SUBCONTRACTORS/ JOINT VENTURES

Universal Engineering Sciences will not be using subcontractors or joint venture arrangements on this project.

Universal Engineering Sciences is not a Minority Business Enterprise or DBE/SBE/MBE company.

However, we strive to include minority owned businesses on all of our projects whenever possible.

DIVERSITY IN STAFF

As more and more people of different ethnic backgrounds, cultures, religions, ages, and physical and mental abilities join the workforce, companies must find ways to incorporate these diverse groups into their organizations. Universal Engineering Sciences is no exception as we recognize that diversity is vital to our success.

The diversity of UES' employees enriches our company with creativity, ideas, different abilities, experiences, and personalities—all contributing to our culture. UES' commitment to developing employee diversity also allows the business to function competitively with its customers, suppliers, and subcontractors.

UES will perform all services in-house and will not need to utilize subcontractors at this time.



SECTION 5

Completed Pricing Sheet

ATTACHMENT 2 - PRICING SHEET
22-903 As-Needed Geologic and Hydrogeologic Services
Universal Engineering Sciences, LLC
SAVE AND SUBMIT AS AN EXCEL FILE

The Contractor will furnish all labor, materials, tools, transportation and equipment necessary to provide Geologic and Hydrogeologic services to Lake County on an as-needed basis. Actual hours are unknown and are estimated for evaluation purposes only.

Alterations to locked cells may result in disqualification of submission.

1. Semi-Annual Report:

ITEM #	DESCRIPTION	ESTIMATED NUMBER OF HOURS	HOURLY RATE	TOTAL
1	Professional Geologist	18	\$120.00	\$2,160.00
2	Staff Geologist	16	\$80.00	\$1,280.00
3	Drafting Services	3	\$65.00	\$195.00
4	Clerical / Administration Services	3	\$60.00	\$180.00

2. Central LF Biennial Report:

ITEM #	DESCRIPTION	ESTIMATED NUMBER OF HOURS	HOURLY RATE	TOTAL
5	Professional Geologist	90	\$120.00	\$10,800.00
6	Staff Geologist	20	\$80.00	\$1,600.00
7	Drafting Services	10	\$65.00	\$650.00
8	Clerical / Administration Services	8	\$30.00	\$240.00

3. Other (List category w/ estimated number of hours and hourly pricing):

ITEM #	DESCRIPTION	ESTIMATED NUMBER OF HOURS	HOURLY RATE	TOTAL
9			\$0.00	\$0.00
10			\$0.00	\$0.00
11			\$0.00	\$0.00
12			\$0.00	\$0.00
13			\$0.00	\$0.00
14			\$0.00	\$0.00

Lake County is exempt from all taxes (Federal, State, Local). A Tax Exemption Certificate will be furnished upon request for any direct purchasing. Contractor will be responsible for payment of taxes on all materials purchased by the Contractor for the project.

Lake County will not accept nor authorize payment for travel time or expenses of service personnel to any of Lake County's facility locations. The hourly rate must commence on the job site. Billable time will be for service work performed.

This is an indefinite quantity contract with no guarantee use of services. The County does not guarantee a dollar amount to be expended on any contract resulting from this solicitation.



SECTION 6

Financial Stability



Geotechnical Engineering
Construction Materials Testing & Inspection
Building Code Compliance
Occupational Health & Safety
Environmental
Building Envelope

Grounded in Excellence

From: Dan Phan, Chief Accounting Officer

To: Files

Subject: CONFIDENTIAL - Financial Strength Statement

Date: March 2021

Universal Engineering Sciences (the “Company”) is a full service Environmental and Geological consulting organization providing Environmental Consulting, Health & Safety, Geotechnical Engineering, Construction Materials Testing, Inspections, as well as Code Compliance services across a broad spectrum of industries. The Company is considered a pioneer of the industry and stands at the forefront of emerging technology and best practices. Our combined capabilities allow us to deliver cost-effective solutions.

The assessment of a company’s ability to meet its obligations is inherently judgmental; thus, the below quantitative and qualitative information was assessed in aggregate, to determine the financial strength of the company.

Liquidity

Our primary sources of liquidity and capital resources are our cash and cash equivalents balances, cash flow from operations, borrowings capacity under our senior secured credit agreement (comprising of a term loan in the amount of \$77,500,000, a delayed draw term loan of \$68,600,000, and a revolver with a maximum borrowing capacity of \$15,000,000 with sub-limits set for lines of credit and swing-line loans), and access to public and private financial markets.

Our principal uses of cash are operating expenses, working capital requirements, capital expenditures, repayment of debt and acquisition expenditures. We believe our sources of liquidity, including cash flow from operations, existing cash and cash equivalents and borrowing capacity under our credit facility will be sufficient to meet projected cash requirements for the foreseeable future.

As of December 31, 2020, the Company has approximately \$7.4 million of cash and cash equivalents on its balance sheet and generated \$18.4 million of positive operating cash flow. Pro forma gross revenues for the Company exceeded \$200 million for the year ended December 31, 2020. The Company has not been involved in any prior or current bankruptcy proceedings.

Litigation

There is no pending significant litigation whose outcome if unfavorable, probable and estimable has not been accrued for in the consolidated financial statements as of December 31, 2020.

COVID-19

In late 2019, a pneumonia like virus within the Wuhan Province of China was reported to the World Health Organization (“WHO”). On March 11, 2020, the WHO characterized the spread of the virus as a pandemic, and a U.S. National Emergency was declared on March 13, 2020. The outbreak of communicable diseases, or the perception that such an outbreak could occur, could result in a widespread public health crisis that could adversely affect the U.S. economy and its financial markets, resulting in an economic downturn that could negatively impact the demand for our services.

Uncertainty regarding the impact of any outbreak of pandemic or contagious disease, including COVID-19, could lead to increased volatility in the markets in which we operate; however, subsequent to the issuance of the date of the financial statements, we did not experience any negative material impacts to our business.

The Company performs a vital role in supporting the nation’s infrastructure and has continued to provide its broad range of mission-critical, professional geo-technic services in states and local municipalities where construction activity is permitted. As the market dynamics related to COVID-19 continue to evolve, the Company is taking the necessary actions to ensure continued, safe support to its clients and the communities where it operates.

We continue to monitor the credit quality and access to capital for our non-governmental clients as this can be an indication of their ability to go forth with future projects and continue to pay for contracted services. The work we do is currently deemed essential by Federal, State and local governments but any change from that designation could have a negative result on our business as well as our peers.

Post COVID-19 quarantine in 2020, the Company has experienced record sales growth. Management believes that while some parts of the business has experienced temporary, localized geographic work delays, the Company’s overall operations has been largely unaffected, with the prospect of increased demand as federal stimulus dollars are deployed.

Other Items

- The Company has adequate insurance coverage through a number of policies covering various risks.
- The Company has no foreign currency risk.

Conclusion: The Company has determined that there are no conditions or events that raise substantial doubt as to the financial strength and stability of the Company.

Dan Phan, Chief Accounting Officer
Universal Engineering Sciences



SECTION 7

Litigation



Geotechnical Engineering
Construction Materials Testing & Inspection
Building Code Compliance
Occupational Health & Safety
Environmental
Building Envelope

Grounded in Excellence

From: Dan Phan, Chief Accounting Officer

To: Files

Subject: CONFIDENTIAL – Litigation Summary

Date: June 2021

Universal Engineering Sciences (the “Company”) is a full service Environmental and Geological consulting organization providing Environmental Consulting, Health & Safety, Geotechnical Engineering, Construction Materials Testing, Inspections, as well as Code Compliance services across a broad spectrum of industries. The Company is considered a pioneer of the industry and stands at the forefront of emerging technology and best practices. Our combined capabilities allow us to deliver cost-effective solutions.

Due to the litigious nature of the development and construction industry, it is impossible to avoid claims. These claims are generally nuisance type claims using the “shotgun” filing method of suing every party involved in the project, no matter how remote the involvement.

Most of these claims are administrated and dismissed with only attorney fees involved. A summary of past cases is available upon request through our corporate appointed attorney. Note: There have been no criminal proceedings or hearings concerning business related offenses in which our company principals or officers were defendants.

Litigation

The Company has never had a judgment ruled against it that has exceeded the deductible portion of professional liability insurance. We have not had requests for equitable adjustment or contract claims, nor have we been declared in default, terminated, or removed from a contract or job related to our services in the past five years.

The Company has not been involved in any litigation or investigation, either civil or criminal, involving a governmental agency, or which may affect the performance of the services to be rendered herein. Additionally, we certify that neither our firm nor its principals have been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in any transaction by any federal department or governmental agency.

There is no pending significant litigation whose outcome if unfavorable, probable, and estimable has not been accrued for in the consolidated financial statements as of December 31, 2020.

Dan Phan, Chief Accounting Officer
Universal Engineering Sciences



SECTION 8

Other Information



GEOTECHNICAL ENGINEERING

UES offers a full range of geotechnical engineering services designed to help architects, engineers, and developers meet local, state, national, and international environmental regulations.

Our world-class geotechnical team works in multiple sectors throughout the United States, including theme parks, hospitality, transportation, residential, higher education, healthcare, and retail.

UES' specialists are supported by a comprehensive set of resources, including one of the largest fleets of energy-efficient field vehicles, high-capacity drill rigs, and state-of-the-art laboratories performing AASHTO, ASTM, FM, and USACE accredited testing on soils, rock cores, and water samples.

We are pre-qualified with different departments of transportation, which allows us to conduct geotechnical and materials testing work related to highway design and construction in those states. Additionally, our engineers have worked on projects ranging from high-rise buildings, industrial developments, and commercial facilities, to solid and hazardous waste landfills and stormwater management systems.

LABORATORY SERVICES

Due to the nature of materials testing and inspection, and threshold services, many of our project assignments are short-term in nature, typically ranging from one day to two weeks. As such, we have the ability to handle new projects to replace our assignments being completed on a weekly basis. We pride ourselves in completing assignments on time with the appropriate resources.

All of our sample results are uploaded by the laboratory managers to track the progress of samples during all steps of sampling, testing, and reporting. Utilizing our company-wide server allows the UES Contract Manager to perform real-time oversight of laboratory testing flow for any sample delivered to our laboratories. Each of our laboratories follows the Quality Systems Manuals and have Quality Assurance oversight by our Quality Systems Manager.

With this type of in-house support, UES provides its clients with a multitude of capabilities ranging from preliminary investigations through to final design.

EFFICIENT BY DESIGN

Field Data Collection (FDC) is proprietary software used by UES technicians to gather testing data. Following a client's request for service, a work order will immediately be created, and a UES field technician will be scheduled and dispatched to the test site. With the use of remote devices in the field, the information gathered by the technicians is saved and transmitted to our office where, in conjunction with samples taken from the field, lab tests are performed and recorded. The resulting data is uploaded to our dispatch and scheduling application where reports are generated and reviewed by a project manager for quality. Once approved, the reports are then sent electronically to the client.

Using soil and groundwater test results, UES' geotechnical engineers can analyze existing site conditions and provide our clients with safe, cost-effective construction solutions. Our dedication to value engineering techniques, state-of-the-art site exploration, and our extensive exploration database consistently proves to be invaluable in both pre-design and pre-construction planning. The evaluation of the subsurface soils and groundwater conditions is important to the development and design of construction projects as these evaluations confirm the allowable capacities of foundations, settlement potential, and groundwater conditions. Also, it is extremely important that the subsurface exploration program evaluates potential site development and long-term performance problems. That way, we can identify cost-effective remediation alternatives for use by other members of the design team.



UES's labs are outfitted with the most up-to-date equipment in the industry.

We also provide post-construction settlement investigations. These studies involve the determination of the cause(s) of settlement followed by remedial recommendations. Examples include sinkhole evaluation of commercial and residential structures, and consolidation of organic or soft clay deposits.

CIVIL DESIGN SUPPORT SERVICES

Quite often, civil engineering design requires special considerations for proper performance and economical construction. A few of the services that UES provides in this area are as follows:

- Exfiltration/Recovery Analysis and Permeability Evaluations
- Underdrain Evaluation and Design
- Pavement Design
- Borrow Pit Studies
- Dewatering Permitting
- Vibration and Noise Monitoring
- Pile Driving Analysis
- Structural Failure Analysis

DEVELOPMENT ACTIVITIES

The development of a new sites requires several studies to ensure that the site is compatible with the intended use. These studies include characterizing soil and groundwater conditions, evaluating the potential for sinkhole activity on the site, and location of muck on the site that could adversely affect performance and construction costs of structure and pavement areas.

DEVELOPMENT ACTIVITY SERVICES

UES routinely performs soil investigations and geotechnical design services for construction projects where cost-effective design is essential to the successful performance of foundations, walls, dams, and other structures that rely upon proper characterization of subsurface soil and groundwater conditions. A list of our capabilities in this area is as follows:

- Site Feasibility and Due Diligence Studies
- Soil Mapping and Classification
- Sinkhole Evaluation
- Landfill Site Selection and Assessment
- Muck Probes and Mapping
- Subsurface Investigations
- Standard Penetration Testing (SPT)
- Cone Penetrometer Soundings
- Shallow and Deep Foundation Recommendations and Design
- Settlement and Stability Analysis
- Subsurface Improvement Recommendations
- Retaining Wall Design
- Seepage Analysis
- Sinkhole Remediation Design
- Value Engineering Analysis

GEOPHYSICAL SURVEYS

As part of the broad range of engineering services provided to clients, UES uses geophysics as a cost-effective, non-intrusive means to rapidly characterize subsurface conditions and man-made structures. Our experience spans from engineering investigations involving pre-design and pre-build geologic characterizations to forensic assessments of distressed property, and “cause of subsidence” evaluations.



Geophysical surveys are used to optimize drilling and sampling programs and to measure bulk physical properties that are complementary to conventional engineering sampling methods.

WHAT LIES BENEATH

Underground utilities can pose a variety of difficulties for construction and facilities management if their locations and depths are not accurately known. Drawings and utility maps are often inaccurate, or in many cases, utilities are not documented at all. In addition to geotechnical applications, geophysical surveys are cost-effective means to map underground utilities in the design phase or prior to start of new and remedial construction activities.



UES' geophysicists, geologists, and engineers draw from their experience to provide clients with optimal solutions to the most challenging of engineering problems. UES continually strives to research new techniques and methods which may further increase our ability to provide our clients with the most prompt and up-to-date services.



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